

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims, AMEND claims, and ADD new claims, in accordance with the following:

1. (CURRENTLY AMENDED) A method of driving a plasma display device applying a first voltage between sustain discharge electrodes so as to perform discharge in a display cell, comprising:

a reset operation including at least a full write operation;

an address operation of turning on/off said display cell in accordance with display data;

and

a sustain discharge operation of performing sustain discharge between said sustain discharge electrodes; and

before said reset operation, a removal operation of removing wall charges formed, by said sustain discharge operation performed between said sustain discharge electrodes, on an address electrode for selecting said display cell.

2. (PREVIOUSLY AMENDED) The method according to claim 1, wherein said removal operation comprises a wall charge formation operation of applying a second voltage to at least one of said sustain discharge electrodes and a self-erase operation of applying a third voltage to said address electrode, and

said second voltage is a voltage for forming, on said address electrode by sustain discharge performed between said sustain discharge electrodes, wall charges capable of self-erase discharge performed between said address electrode and at least one of said sustain discharge electrodes in said self-erase operation.

3. (PREVIOUSLY AMENDED) The method according to claim 2, wherein in said wall charge formation operation, said second voltage is applied to one of said sustain discharge electrodes, and the other electrode is set at ground level.

4. (PREVIOUSLY AMENDED) The method according to claim 2, wherein in said wall charge formation operation, said second voltage is applied to one of said sustain discharge electrodes, and then said second voltage is applied to the other electrode.

5. (PREVIOUSLY AMENDED) The method according to claim 1, wherein said removal operation is arranged between subfields, each subfield comprising a respective reset operation, a respective address operation, and a respective sustain discharge operation.

6. (PREVIOUSLY AMENDED) A method of driving a plasma display device, comprising

applying a first voltage between sustain discharge electrodes so as to perform discharge in a display cell, wherein

after a sustain discharge is performed between said sustain discharge electrodes, a second voltage, that is a voltage twice a power supply voltage, for generating a pulse for sustain discharge is applied to at least one of said sustain discharge electrodes, and during or after applying said second voltage, a third voltage is applied to an address electrode for selecting said display cell.

7. (PREVIOUSLY AMENDED) The method according to claim 6, wherein:
said sustain discharge electrodes comprise X-electrodes which are driven by a sustain discharge pulse simultaneously, and Y-electrodes which are driven by a sustain discharge pulse simultaneously and by a scanning pulse separately, and
said second voltage is applied to the X-electrode.

8. (PREVIOUSLY AMENDED) The method according to claim 6, wherein:
said sustain discharge electrodes comprise X-electrodes which are driven by a sustain discharge pulse simultaneously, and Y-electrodes which are driven by a sustain discharge pulse simultaneously and by a scanning pulse separately; and
said second voltage is applied to the Y-electrode.

9. (PREVIOUSLY AMENDED) The method according to claim 6, wherein:
said sustain discharge electrodes comprise X-electrodes which are driven by a sustain discharge pulse simultaneously, and Y-electrodes which are driven by a sustain discharge pulse

simultaneously and by a scanning pulse separately; and

said second voltage is applied to the Y-electrode, and then, said second voltage is applied to the X-electrode.

10. (PREVIOUSLY AMENDED) The method according to claim 6, wherein:

said sustain discharge electrodes comprise X-electrodes which are driven by a sustain discharge pulse simultaneously, and Y-electrodes which are driven by a sustain discharge pulse simultaneously and by a scanning pulse separately; and

said second voltage is applied to the X-electrode, and then, said second voltage is applied to the Y-electrode.

11. (PREVIOUSLY AMENDED) A method of driving a plasma display device comprising:

applying a first voltage between sustain discharge electrodes so as to perform discharge in a display cell, wherein;

a second voltage, that is a voltage twice a power supply voltage, for generating a pulse for sustain discharge is applied to at least one of said sustain discharge electrodes as a final pulse for sustain discharge performed between said sustain discharge electrodes, and during or after applying said second voltage, a third voltage is applied to an address electrode for selecting said display cell.

12. (PREVIOUSLY AMENDED) The method according to claim 11, wherein:

said sustain discharge electrodes comprise X-electrodes which are driven by a sustain discharge pulse simultaneously and Y-electrodes which are driven by a sustain discharge pulse simultaneously and by a scanning pulse separately; and

said second voltage is applied to the X-electrode.

13. (PREVIOUSLY AMENDED) The method according to claim 11, wherein;

said sustain discharge electrodes comprise X-electrodes which are driven by a sustain discharge pulse simultaneously and Y-electrodes which are driven by a sustain discharge pulse simultaneously and by a scanning pulse separately; and

said second voltage is applied to the Y-electrode.

14. (PREVIOUSLY AMENDED) The method according to claim 11, wherein;

said sustain discharge electrodes comprise X-electrodes which are driven by a sustain discharge pulse simultaneously, and Y-electrodes which are driven by a sustain discharge pulse simultaneously and by a scanning pulse separately ; and

said second voltage is applied to the Y-electrode, and then, said second voltage is applied to the X-electrode.

15. (PREVIOUSLY AMENDED) The method according to claim 11, wherein;

said sustain discharge electrodes comprise X-electrodes which are driven by a sustain discharge pulse simultaneously, and Y-electrodes which are driven by a sustain discharge pulse simultaneously and by a scanning pulse separately ; and

said second voltage is applied to the X-electrode, and then, said second voltage is applied to the Y-electrode.

16. (PREVIOUSLY AMENDED) A plasma display device applying a first voltage between sustain discharge electrodes so as to perform discharge in a display cell, comprising:

a control circuit applying a second voltage to at least one of said sustain discharge electrodes and applying a third voltage to an address electrode for selecting said display cell,

wherein said second voltage is a voltage which forms, on said address electrode by sustain discharge performed between the sustain discharge electrodes, wall charges capable of self-erase discharge between said address electrode and at least one of said sustain discharge electrodes by said third voltage.

17. (PREVIOUSLY AMENDED) A plasma display device applying a first voltage between sustain discharge electrodes so as to perform discharge in a display cell, comprising:

a control circuit, after a sustain discharge is performed between said sustain discharge electrodes, applying a second voltage, of a level twice a level of a power supply voltage, which generates a pulse producing a sustain discharge, to at least one of said sustain discharge electrodes, and during or after applying said second voltage, applying a third voltage to an address electrode for selecting said display cell.

18. (PREVIOUSLY PRESENTED) A method of driving a plasma display device in which a first voltage is applied between sustain discharge electrodes so as to perform a discharge in a selected display cell, comprising:

removing wall charges, formed on an address electrode to select said display cell, by a

sustain discharge performed between said sustain discharge electrodes.

19. (PREVIOUSLY AMENDED) The method according to claim 18, wherein said removing comprises;

applying a second voltage to at least one of said sustain discharge electrodes to form the wall charges and applying a third voltage to said address electrode to produce a self-erase discharge, and

said second voltage forms, on said address electrode by a sustain discharge performed between said sustain discharge electrodes, wall charges which undergo self-erase discharge, between said address electrode and at least one of said sustain discharge electrodes, in said self-erase discharge.

20. (PREVIOUSLY PRESENTED) The method according to claim 19, wherein said removing comprises applying the second voltage to one of said sustain discharge electrodes and setting the other of said sustain electrodes at ground level.

21. (PREVIOUSLY AMENDED) The method according to claim 20, wherein said second voltage is applied to one of said sustain discharge electrodes, and subsequently to the other electrode.

22. (PREVIOUSLY AMENDED) The method according to claim 18, wherein said removing is performed between subfields, each subfield comprising reset, address, and sustain discharge intervals.

23. (PREVIOUSLY PRESENTED) A method of driving a plasma display device wherein a first voltage is applied between sustain discharge electrodes so as to perform a sustain discharge in a display cell, comprising:

after a sustain discharge between said sustain discharge electrodes, applying a second voltage, of a voltage level twice that of a power supply voltage level, to generate a pulse for sustain discharge applied to at least one of said sustain discharge electrodes; and

during or after applying said second voltage, applying a third voltage to an address electrode to select said display cell.

24. (PREVIOUSLY PRESENTED) A method of driving a plasma display device in which a first voltage is applied between sustain discharge electrodes so as to perform a discharge in a display cell, comprising:

applying a second voltage of a voltage level twice that of a power supply voltage level, to generate a pulse for sustain discharge, to at least one of said sustain discharge electrodes, as a final pulse producing a sustain discharge between said sustain discharge electrodes; and

during or after applying said second voltage, applying a third voltage to an address electrode to select said display cell.